

Initial Deliverability
Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET - - SAN JUAN BASIN

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, MESAVERDE, & ALL DAKOTA
EXCEPT BARKER DOME STORAGE AREA)

Pool Basin Dakota Formation Dakota County Sio Arriba
Purchasing Pipeline El Paso Natural Gas Company Date Test Filed 1-2-64
Operator PAN AMERICAN PETROLEUM CORP. Lease Jicarilla Apache 102 Well No. 13
Unit 8 Sec. 10 Twp. 24N Rge. 4W Pay Zone: From 7776 To 7700
Casing: OD 4-1/2 WT. 10.5 Set At 8000 Tubing: OD 2-3/8 WT. 4.7 T. Perf. 7742
Produced Through: Casing _____ Tubing X Gas Gravity: Measured .718 Estimated _____
Date of Flow Test: From 12-3-63 To 12-10-63 * Date S.I.P. Measured 10-3-63
Meter Run Size 4" Orifice Size 1.300 Type Chart Sq. Rt. Type Taps Flange

OBSERVED DATA

Flowing casing pressure (Dwt) _____ psig + 12 = _____ psia (a)
Flowing tubing pressure (Dwt) _____ psig + 12 = _____ psia (b)
Flowing meter pressure (Dwt) _____ psig + 12 = _____ psia (c)
Flowing meter pressure (meter reading when Dwt. measurement taken):
Normal chart reading _____ psig + 12 = _____ psia (d)
Square root chart reading (_____) ² x spring constant _____ = _____ psia (d)
Meter error (c) - (d) or (d) - (c) _____ ± _____ = _____ psi (e)
Friction loss, Flowing column to meter:
(b) - (c) Flow through tubing: (a) - (c) Flow through casing _____ = _____ psi (f)
Seven day average static meter pressure (from meter chart):
Normal chart average reading _____ psig + 12 = _____ psia (g)
Square root chart average reading (7.33) ² x sp. const. 10 _____ = _____ psia (g)
Corrected seven day avg. meter press. (p_f) (g) + (e) _____ = _____ psia (h)
P_t = (h) + (f) _____ = _____ psia (i)
Wellhead casing shut-in pressure (Dwt) 2393 psig + 12 = _____ psia (j)
Wellhead tubing shut-in pressure (Dwt) 2367 psig + 12 = _____ psia (k)
P_c = (j) or (k) whichever well flowed through _____ = _____ psia (l)
Flowing Temp. (Meter Run) _____ °F + 460 _____ = _____ °Abs (m)
P_d = 1/2 P_c = 1/2 (l) _____ = _____ psia (n)

Q = _____ X $\left(\frac{\text{FLOW RATE CALCULATION}}{\frac{\sqrt{(c)}}{\sqrt{(d)}}} = \frac{\text{_____}}{\text{_____}} = \text{_____} \right) = \text{_____ MCF/da}$
(Integrated)

DELIVERABILITY CALCULATION

D = Q 770 $\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} = \frac{3,983,614}{300,3972} \right]^n \cdot .6428 = \text{640 MCF/da.}$

SUMMARY

P_c = 2393 psia
Q = 770 Mcf/day
P_w = 356 psia
P_d = 1133 psia
D = 640 Mcf/day

Company PAN AMERICAN PETROLEUM CORPORATION
By F. L. Hubers
Title District Engineer
Witnessed by By
Company F. W. Foell

ORIGINAL SIGNED BY
F. W. Foell

- * This is date of completion test.
- * Meter error correction factor

REMARKS OR FRICTION CALCULATIONS

GL	(1-e ^{-S})	(F _c Q) ²	(F _c Q) ² (1-e ^{-S}) R ²	P _t ² (Column i)	P _t ² + R ²	P _w
<u>5800</u>	<u>.333</u>	<u>52,411</u>	<u>17,433</u>	<u>291,600</u>	<u>309,033</u>	<u>356</u>

